

ABSTRACT:

A quadrature device 1 for a communication device, receiver, transmitter, transceiver, telephone, mixer, modulator or demodulator comprises I and Q signal paths and corresponding signal paths components 2I, 2Q; 4I, 4Q; 9I, 9Q showing a mismatch. The device 1 comprises switching means 3, 3', 6, 3'', 3''' for in particular data dependently exchanging the I and Q signals in said I and Q paths in order to improve adverse effects, such as reduction of leakage of quantisation noise from the image band to the signal band in a quadrature modulator. Even mismatch effects between digital to analog converters (DAC's) in a feedback path of a sigma delta ($\Sigma\Delta$) modulator are compensated.

Fig. 1